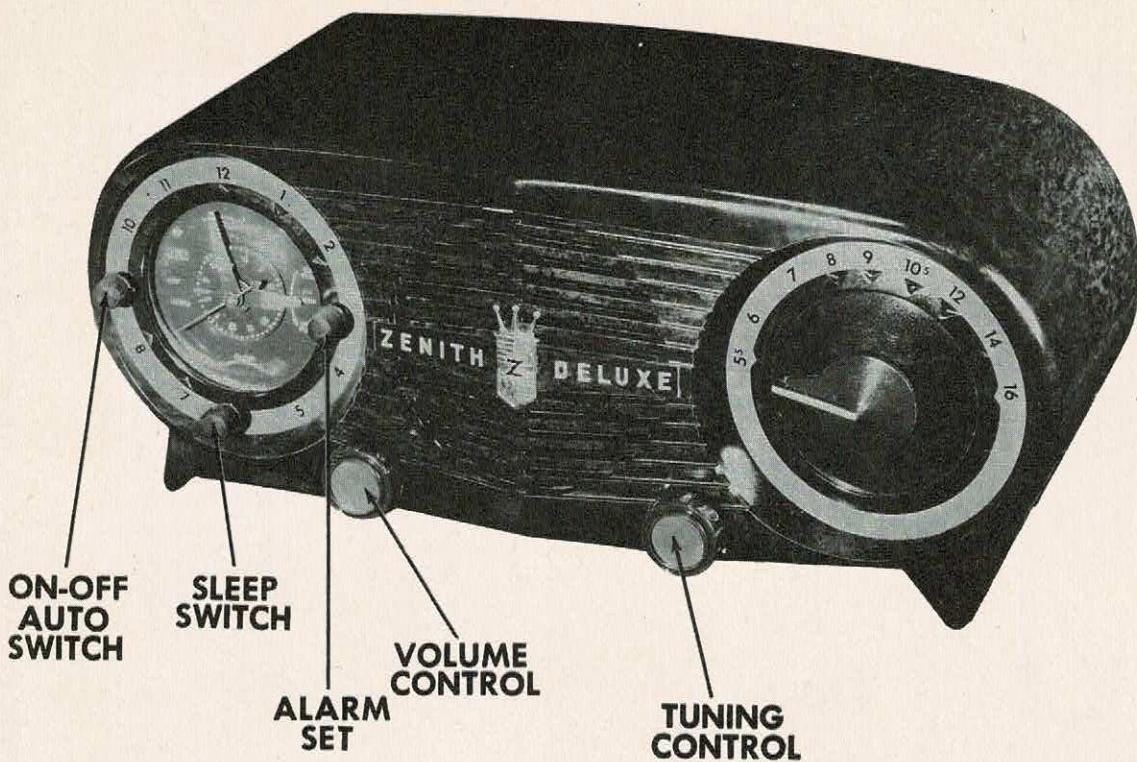


ZENITH
MODELS L518, F, G, W, Y (Ch. 5L03)

TRADE NAME	Zenith Model L518, F, G, W, Y (Ch. 5L03)											
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago, Ill.											
TYPE SET	AC Operated AM Superheterodyne Receiver with Electric Clock											
TUBES (Five)	Types 12BE6 Conv., 12BA6 IF Amp., 12AT6 Det.-AVC-AF Amp., 50C5 Audio Output, 35W4 Rectifier											
POWER SUPPLY	110-120 Volts AC-60 Cycles											
TUNING RANGE-BROADCAST	535-1620 KC											
RATING .28 Amp. @ 117 Volts AC												
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT												
Use isolation transformer, if available. If not, connect a .IMFD capacitor in series with low side of signal generator and B-. Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.												
Loop should be maintained in same relative position to chassis as when receiver is in cabinet.												
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS						
1. .IMFD	High side to pin 1 (grid) of 12BE6 (V1). Low side to B-.	455KC (400%Mod)	600KC	Across voice coil	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFID to reduce hum modulation.						
2.	Loop	1620KC	Tuning gang fully open	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.						
3.	"	1400KC	Tune to 1400KC signal	"	A6	"						

To set pointer turn tuning gang fully closed and set pointer parallel to base of cabinet of low frequency end of the dial.

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ZENITH
MODELS L518, F, G, W, Y (Ch. 5L03)

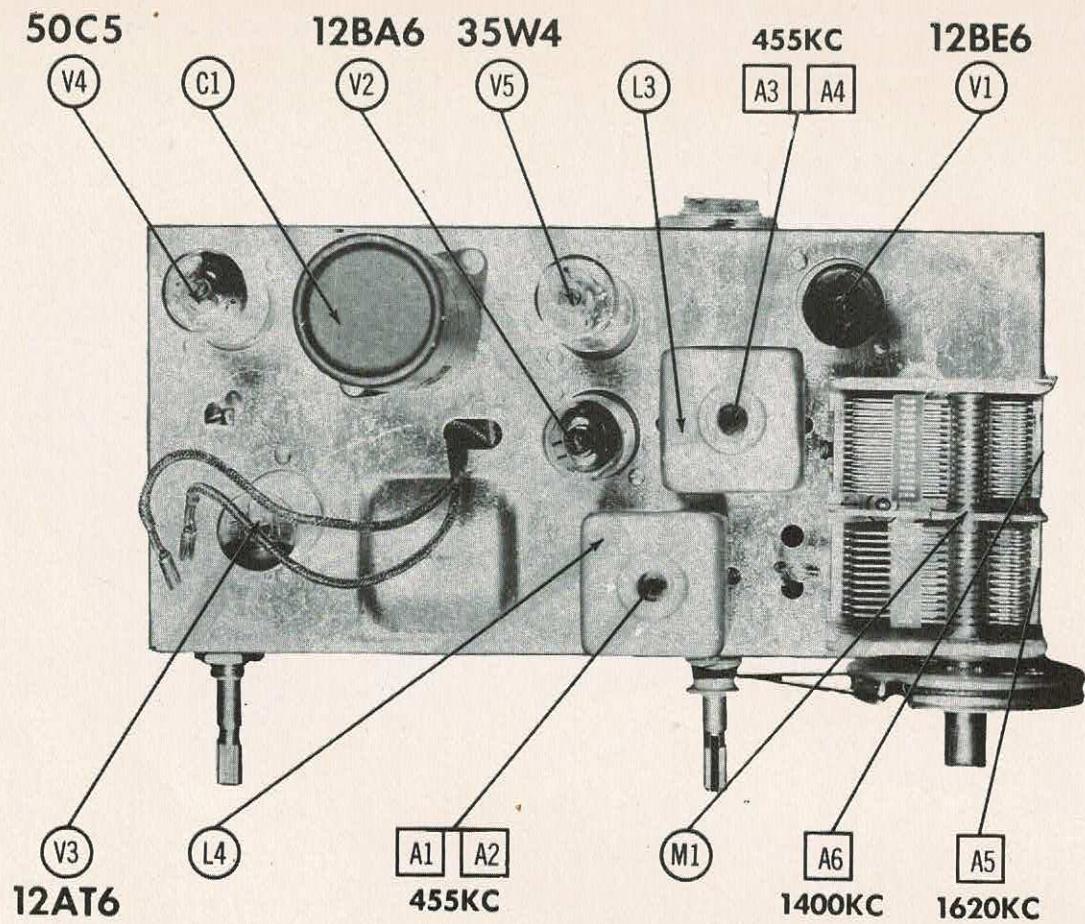
PARTS LIST AND DESCRIPTIONS

ZENITH
MODEL L518 (Ch. 5L08)

CHASSIS—TOP VIEW

TUBES (SYLVANIA, GENERAL ELECTRIC or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		ZENITH PART No.	CORNELL-DUBILIER PART No.	RTMA BASE TYPE	
V1	Converter	12BE6	PTE486	TCH	
V2	IF Amplifier	12BA6	S1250	TBK	
V3	Det-AVC-A.F. Amp.	12AT6	D6-103	TBT	
V4	Audio Output	50C5	D6-103	TCV	
V5	Rectifier	35W4	D6-103	5BQ	



CAPACITORS

Capacity values given in the rating column are in microfarads for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	ZENITH PART No.	AEROVOX PART No.	REPLACEMENT DATA			NOTES
				CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	
C1A	.80	150	22-2351	AFH2-18	PT418	GP2K-251	TVL-2442
C2	.05	200	22-839	P288-05	D6-251	PT415	2TM-S5
C3	.05	200	22-1666	S1250	D6-103	GP2-333-103	5GA-T25
C4	.05	200	22-839	P288-05	D6-103	GP2-333-103	2TM-S5
C5	10000	22-3	BPD-01	BPD-00047	D6-103	GP2-333-103	5HK-S1
C6	470	22-6	BPD-01	BPD-01	D6-103	GP2-333-103	5GA-T47
C7	10000	22-3	BPD-01	BPD-01	D6-103	GP2-333-103	5HK-S1
C8	.01	400	22-1B2	PTE486	D6-103	PT411	4TM-S1
C9	10000	22-3	BPD-01	BPD-01	D6-103	GP2-333-103	5HK-S1
C10	.05	200	22-839	P288-05	PTE485	PT415	2TM-S5

CONTROLS

ITEM No.	RATING	ZENITH PART No.	IRC PART No.	REPLACEMENT DATA			NOTES
				CAROSTAT PART No.	CENTRALAB PART No.	MALLORY PART No.	
R1A	500KΩ Shaft	1/4	63-2393	QL1-133	AG-58-S	U-50	INSTALLATION NOTES
R1B			Not Req.	KSS-3	AK-4	Not Reg.	Volume Attach to RIA

RESISTORS

ITEM No.	RATING	ZENITH PART No.	IRC PART No.	REPLACEMENT DATA			NOTES
				OHMS	WATT	OHMS	
R2	22KΩ	1/2	63-1842	BTS-22K	1/2	63-1898	
R3	2.7Meg	1/2	63-1926	BTS-2.7Meg	1500	1	
R4	68Ω	1/2	63-1737	BTS-68	1000Ω	1	
R5	4.7Meg	1/2	63-1940	BTS-4.7Meg	22Ω	1	
R6	470KΩ	1/2	63-1888	BTS-470K	63-1450		

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	DC RES.	ZENITH PART No.	REPLACEMENT DATA			NOTES
				PRI. SEC.	PRI. SEC.	CHICAGO TRIAD PART No.	
T1	2.0KΩ	3.3Ω	183Ω tan @ 60Hz	.64Ω	95-1293	A-3031①	S-IX ① Drill one new mounting hole.

PARTS LIST AND DESCRIPTIONS (Continued)

CHASSIS—BOTTOM VIEW

SPEAKER				
ITEM No.	RATINGS	REPLACEMENT DATA		NOTES
		ZENITH PART No.	JENSEN PART No.	
SP1	4" SIZE PM FIELD	V. C. IMP. 3.3Ω	49-713 Mod. P4-X	ST-13 Mod. P4-X 4A07

COILS (RF-IF)

ITEM No.	USE	DC RES.		MERIT PART No.	MILLER PART No.	NOTES
		PR.	SEC.			
L1	Loop Ant.	3.1Ω	6.5Ω	S-20492		
L2	Osc. Coil	.7Ω	1.8Ω	S-18616		
L3	Input IF	18Ω	17Ω	95-1101	BC-368	70-Osc. *
L4	Output IF	17Ω	17Ω	95-1102	BC-355	012-C1 12-C6 †

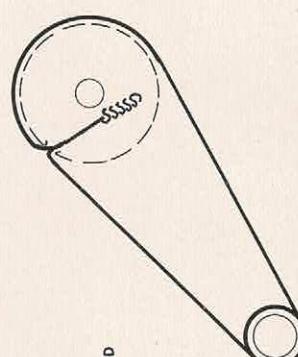
* Disregard tap on secondary winding.

† Use adaptor plate and cut out center spade bolt mounting support.

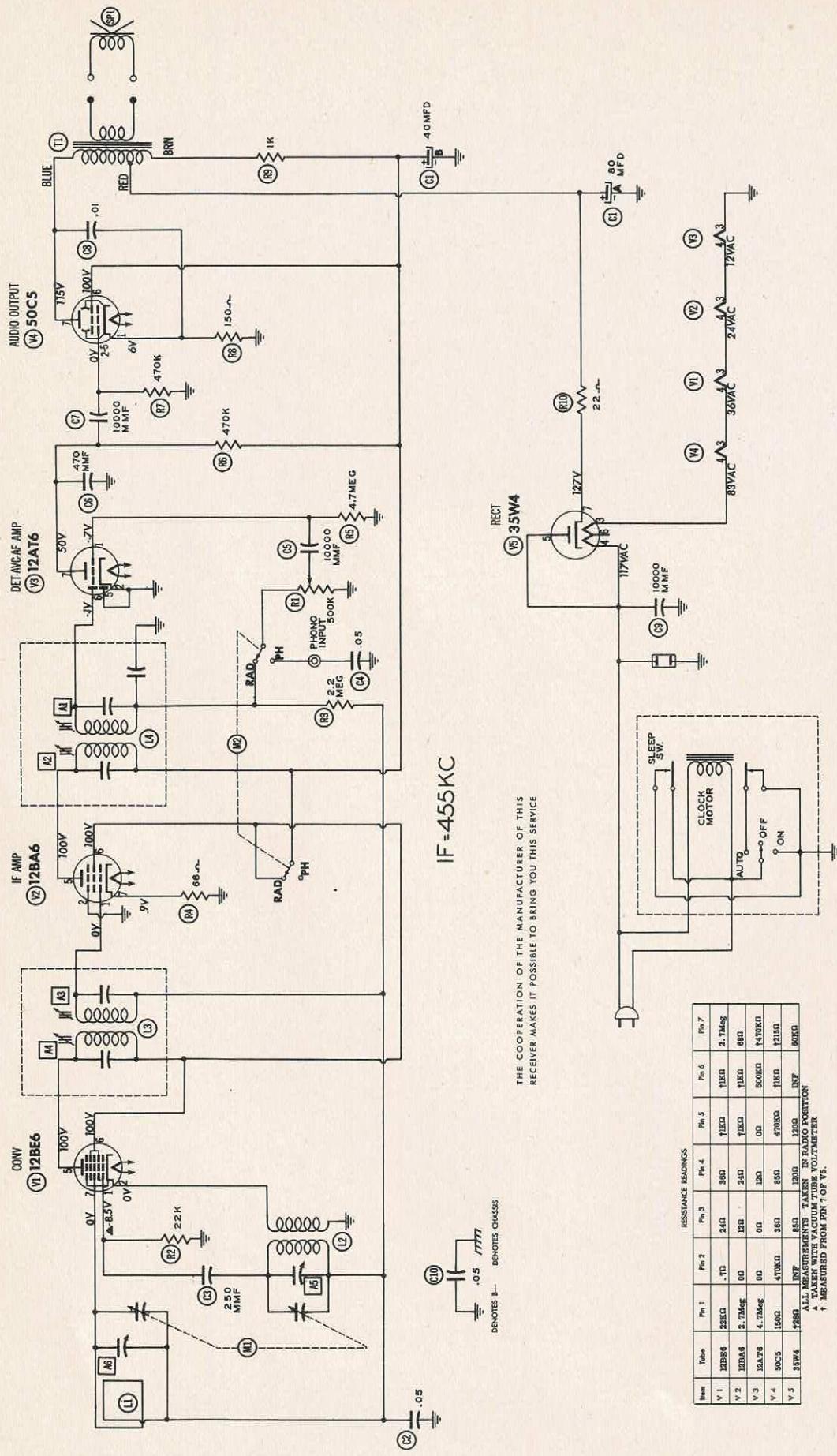
MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.		NOTES
		PR.	SEC.	
M1	Tuning Capacitor	22-2386		34-457AMMF, 27-196MMMF
	Switch	85-495		Radio-Phone Selector
M2	Clock Assy.	S-188239		Model L518
	Clock Assy.	S-188234		Models L518F, L518G, L518W, L518Y
	Clock Cover	S-188225		
	Clock Dial Glass	102-145		
	Clock Escutcheon	57-1782		
	Cabinet	14-1454		Model L518
	Cabinet	14-1455		Model L518F
	Cabinet	14-1503		Model L518G
	Cabinet	14-1453		Model L518W
	Cabinet	14-1451		Model L518Y
	Dial Scale	26-466		
	Pointer	59-267		Model L518
	Pointer	59-265		Models L518F, L518G, L518W, L518Y
	Knob	46-904		Model L518
	Knob	46-905		Clock (3 used), Models L518F, L518G, L518W, L518Y
	Knob	46-943		Volume, Tuning (2 used), Model L518
	Knob	46-941		Volume, Tuning (2 used), Models L518F, L518G, L518W, L518Y

TUNING GANG FULLY CLOSED



2 1/2 TURNS



A PHOTOFACT STANDARD NOTATION SCHEMATIC
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- DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of +10% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.